

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|--------------|---|--|-------------------|------|
| Appl. No. | : | 10/809,066 | Confirmation No.: | 6976 |
| Applicant | : | Medhat Michael | | |
| Entitled | : | Spectral Gamma Ray Logging-While-Drilling System | | |
| Filed | : | 15 March 2004 | | |
| TC/A.U. | : | 2884 | | |
| Examiner | : | Polyzos, Faye S. | | |
| Docket No. | : | 135-0051US | | |
| Customer No. | : | 29855 | | |

Commissioner for Patents
PO BOX 1450
Alexandria, VA 22313-1450

REPLY TO NON-FINAL OFFICE ACTION DATED 22 MAY 2006

In response to the Office Action of 22 May 2006, please reconsider the above-identified application in light of the following:

- I. **Amendments to the Claims**, which begin on page 2 of this paper.
- II. **Remarks/Arguments**, which begin on page 15 of this paper.